FIG. 1

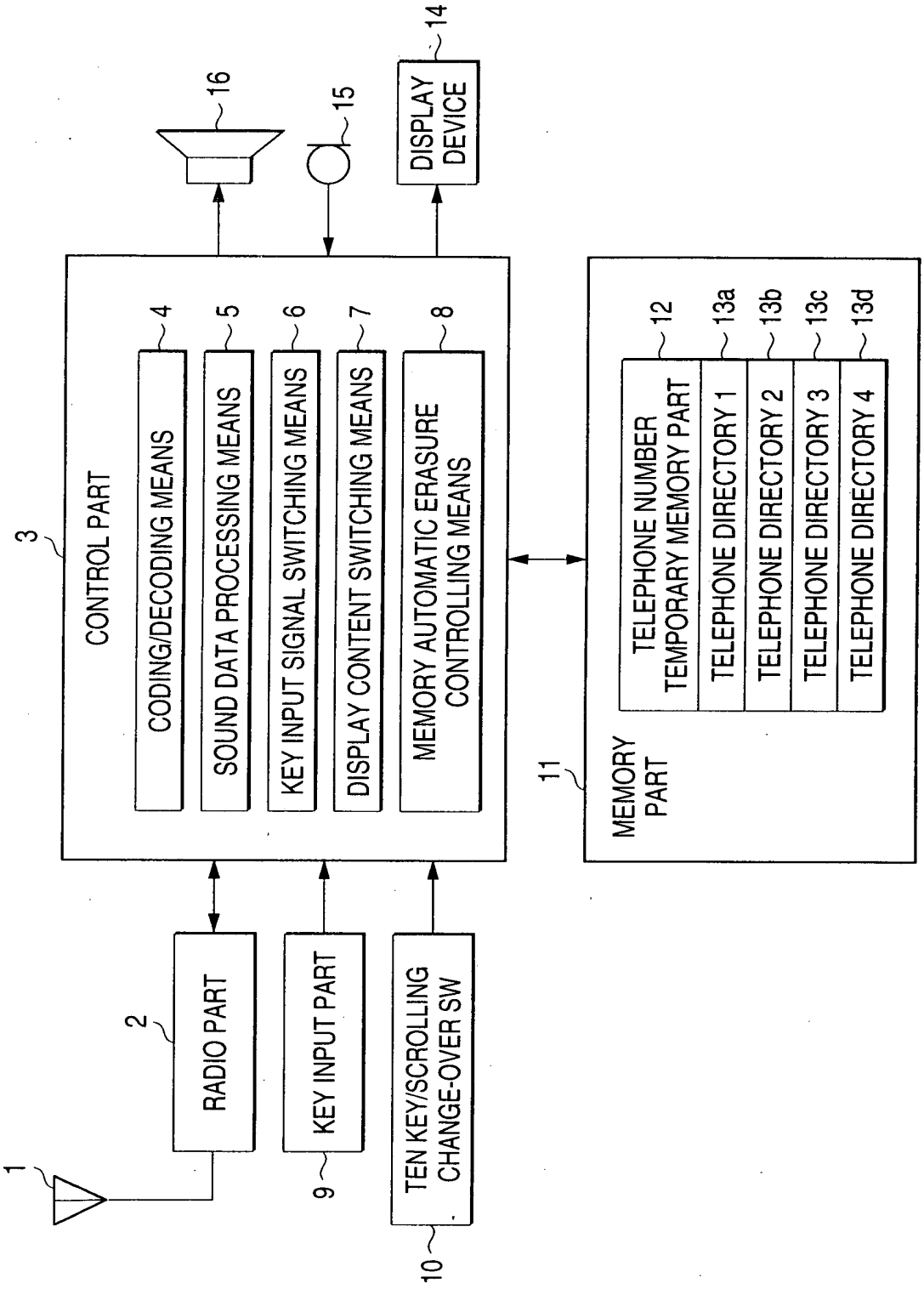
1
2
RADIO PART
9
KEY INPUT PART
10
TEN KEY/SCROLLING CHANGE-OVER SW
3
CONTROL PART
4
CODING/DECODING MEANS
5
SOUND DATA PROCESSING MEANS
6
KEY INPUT SIGNAL SWITCHING MEANS
7
DISPLAY CONTENT SWITCHING MEANS
8
MEMORY AUTOMATIC ERASURE CONTROLLING MEANS
11
MEMORY PART
12
TELEPHONE NUMBER TEMPORARY MEMORY PART
13a
TELEPHONE DIRECTORY 1
13b
TELEPHONE DIRECTORY 2
13c
TELEPHONE DIRECTORY 3
13d
TELEPHONE DIRECTORY 4
14
DISPLAY DEVICE
15
16

FIG. 2

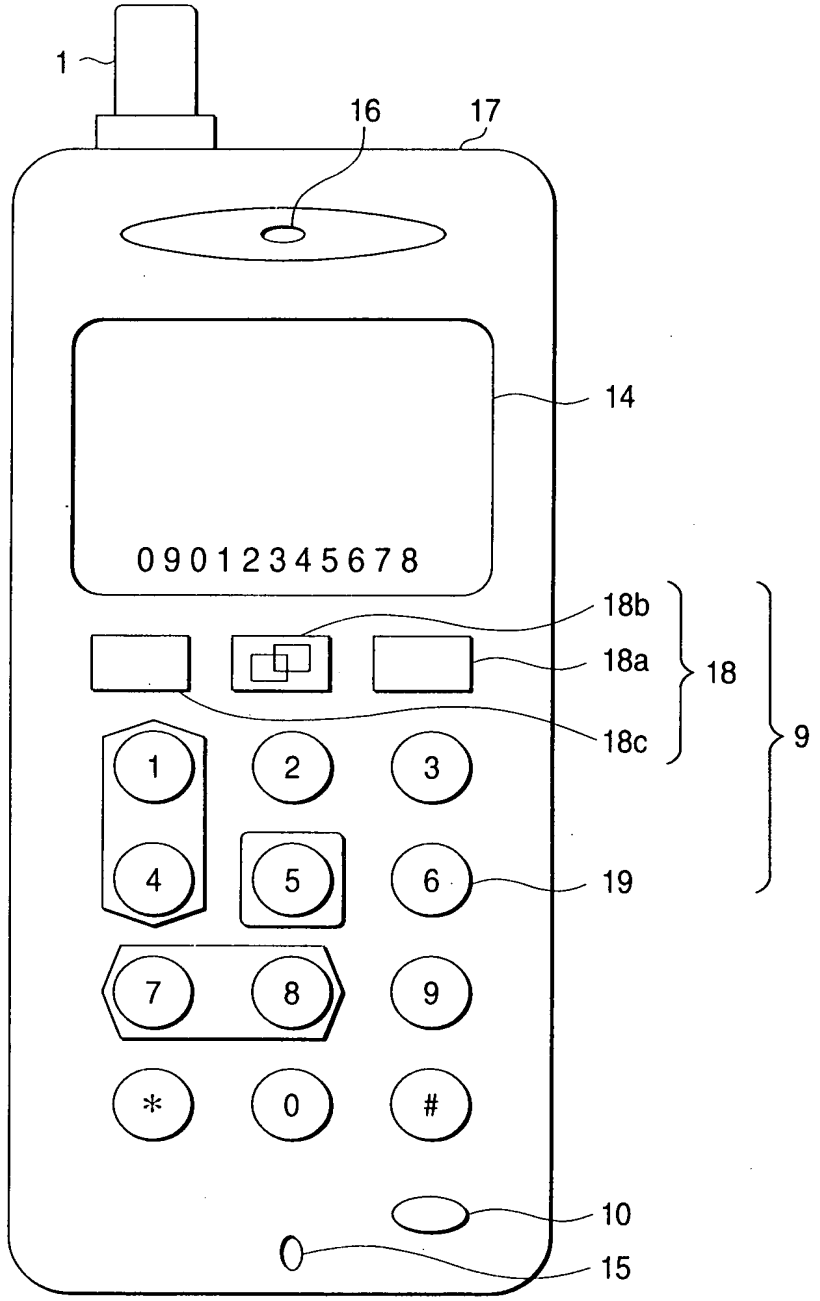

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FIG. 3

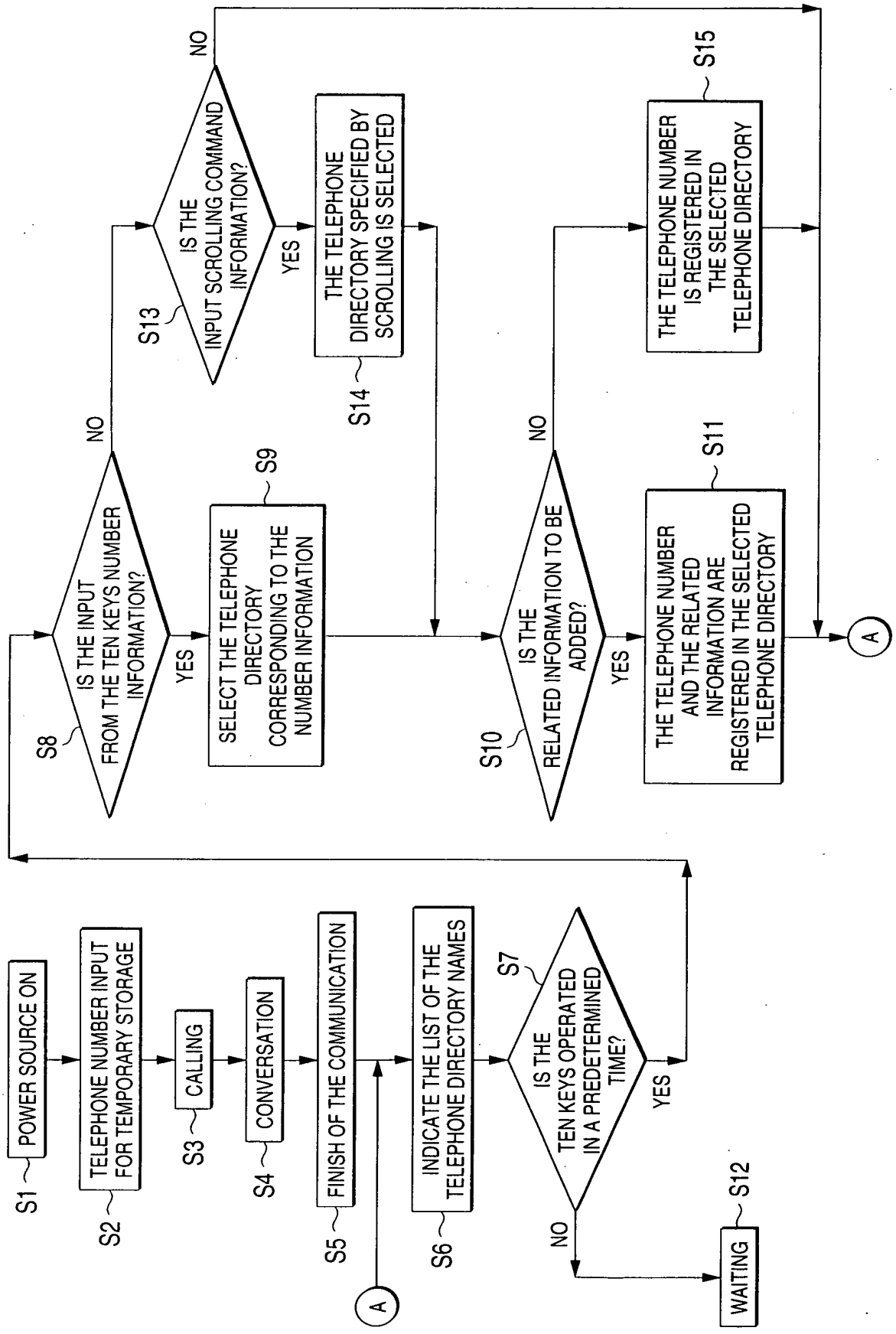
POWER SOURCE ON
S1
TELEPHONE NUMBER INPUT FOR TEMPORARY STORAGE
S2
CALLING
S3
CONVERSATION
S4
FINISH OF THE COMMUNICATION
S5
INDICATE THE LIST OF THE TELEPHONE DIRECTORY NAMES
S6
IS THE TEN KEYS OPERATED IN A PREDETERMINED TIME?
S7
NO
YES
WAITING
S12
IS THE INPUT FROM THE TEN KEYS NUMBER INFORMATION?
S8
NO
YES
SELECT THE TELEPHONE DIRECTORY CORRESPONDING TO THE NUMBER INFORMATION
S9
IS THE INPUT SCROLLING COMMAND INFORMATION?
S13
NO
YES
THE TELEPHONE DIRECTORY SPECIFIED BY SCROLLING IS SELECTED
S14
IS THE RELATED INFORMATION TO BE ADDED?
S10
NO
YES
THE TELEPHONE NUMBER AND THE RELATED INFORMATION ARE REGISTERED IN THE SELECTED TELEPHONE DIRECTORY
S11
THE TELEPHONE NUMBER IS REGISTERED IN THE SELECTED TELEPHONE DIRECTORY
S15
A
A

FIG. 4

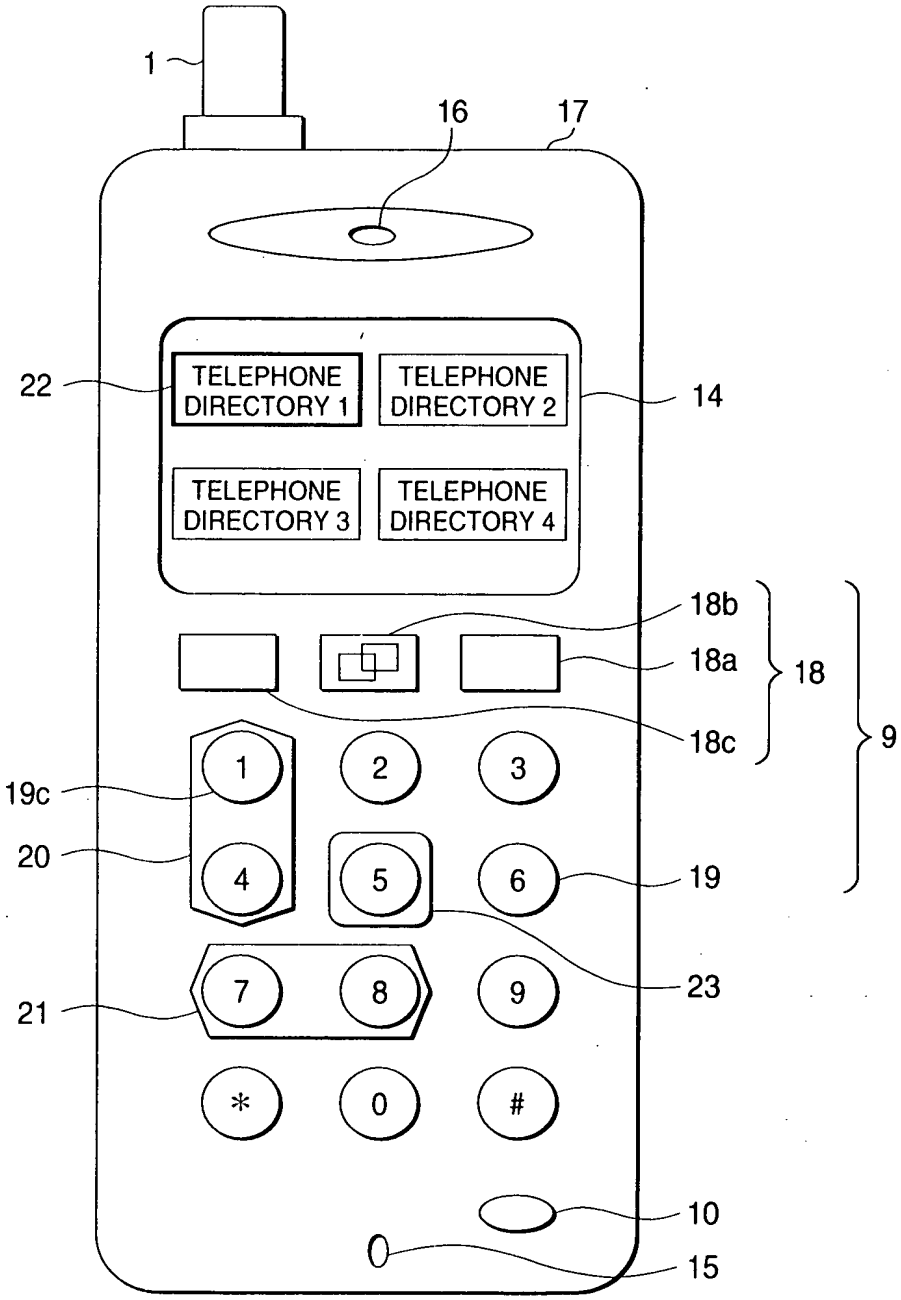

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FIG. 5A

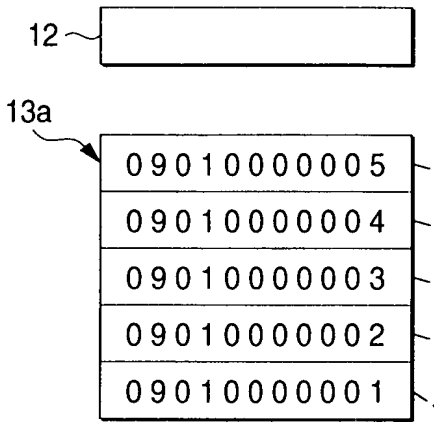

FIG. 5B

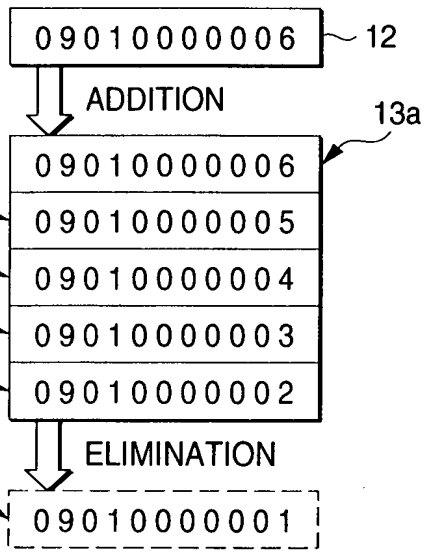

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FIG. 6

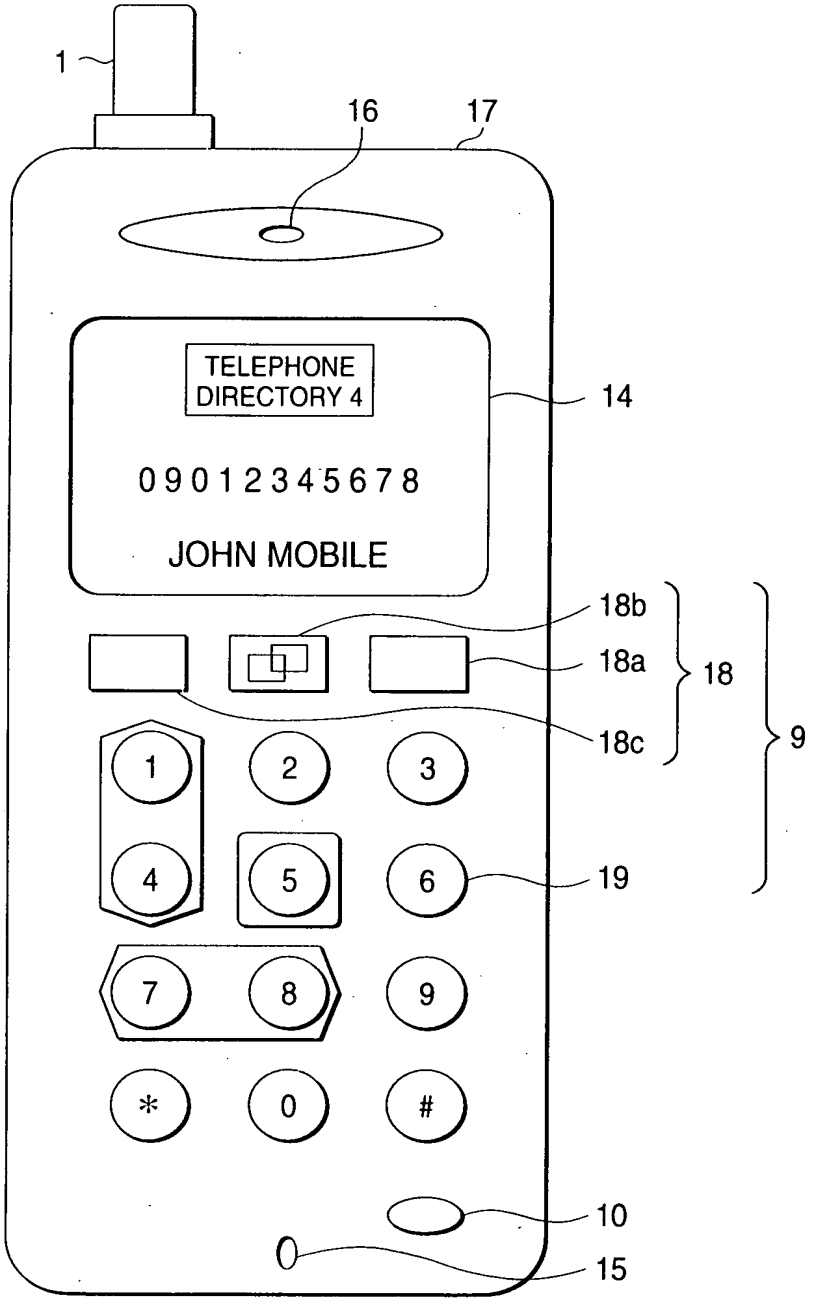
1
16
17
TELEPHONE DIRECTORY 4
0 9 0 1 2 3 4 5 6 7 8
JOHN MOBILE
14
18b
18a
18
18c
9
1
2
3
4
5
6
19
7
8
9
*
0
#
10
15

FIG. 7

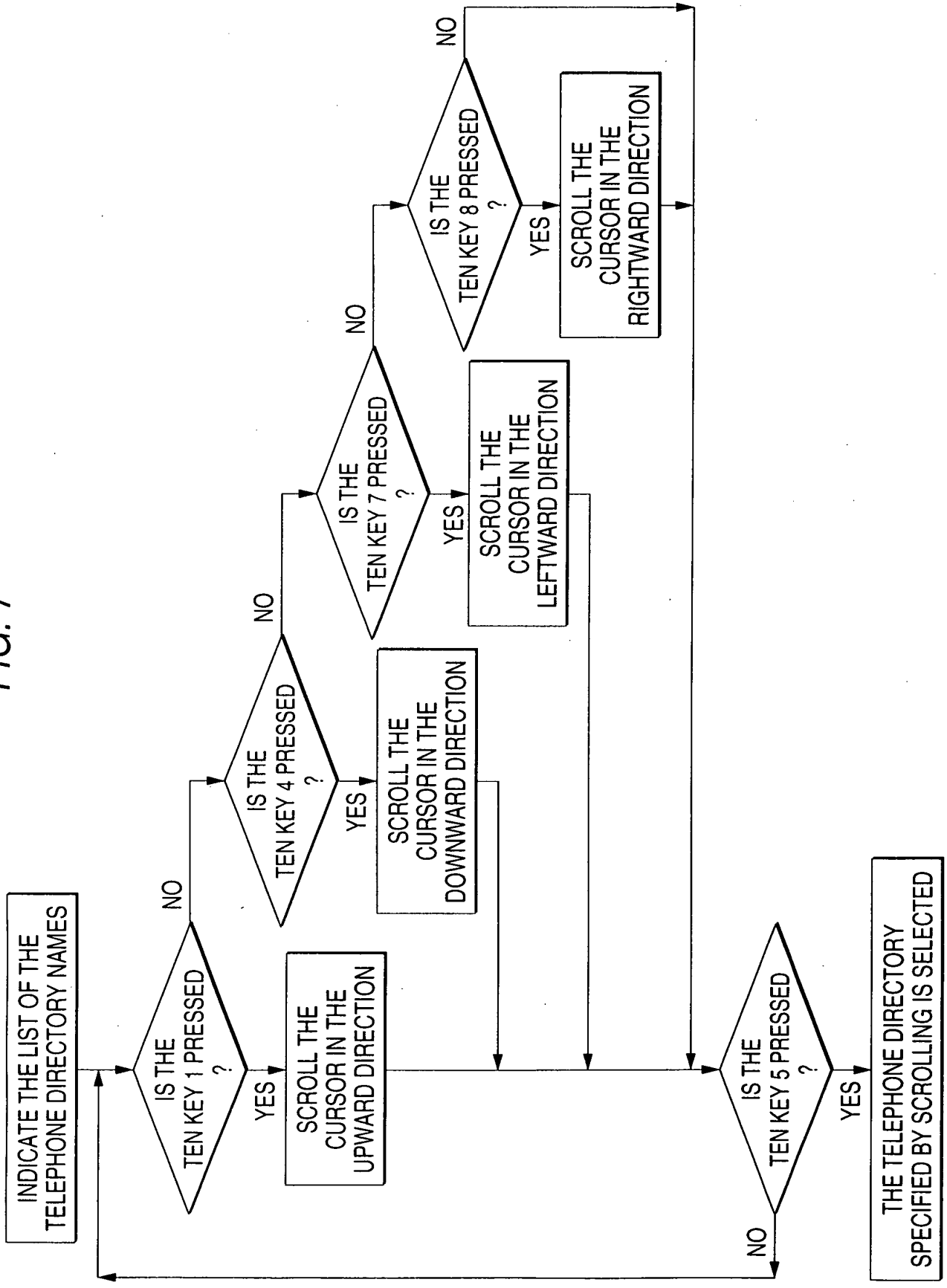
INDICATE THE LIST OF THE TELEPHONE DIRECTORY NAMES
IS THE TEN KEY 1 PRESSED ?
YES
SCROLL THE CURSOR IN THE UPWARD DIRECTION
NO
IS THE TEN KEY 4 PRESSED ?
YES
SCROLL THE CURSOR IN THE DOWNWARD DIRECTION
NO
IS THE TEN KEY 7 PRESSED ?
YES
SCROLL THE CURSOR IN THE LEFTWARD DIRECTION
NO
IS THE TEN KEY 8 PRESSED ?
YES
SCROLL THE CURSOR IN THE RIGHTWARD DIRECTION
NO
IS THE TEN KEY 5 PRESSED ?
YES
THE TELEPHONE DIRECTORY SPECIFIED BY SCROLLING IS SELECTED
NO

FIG. 8

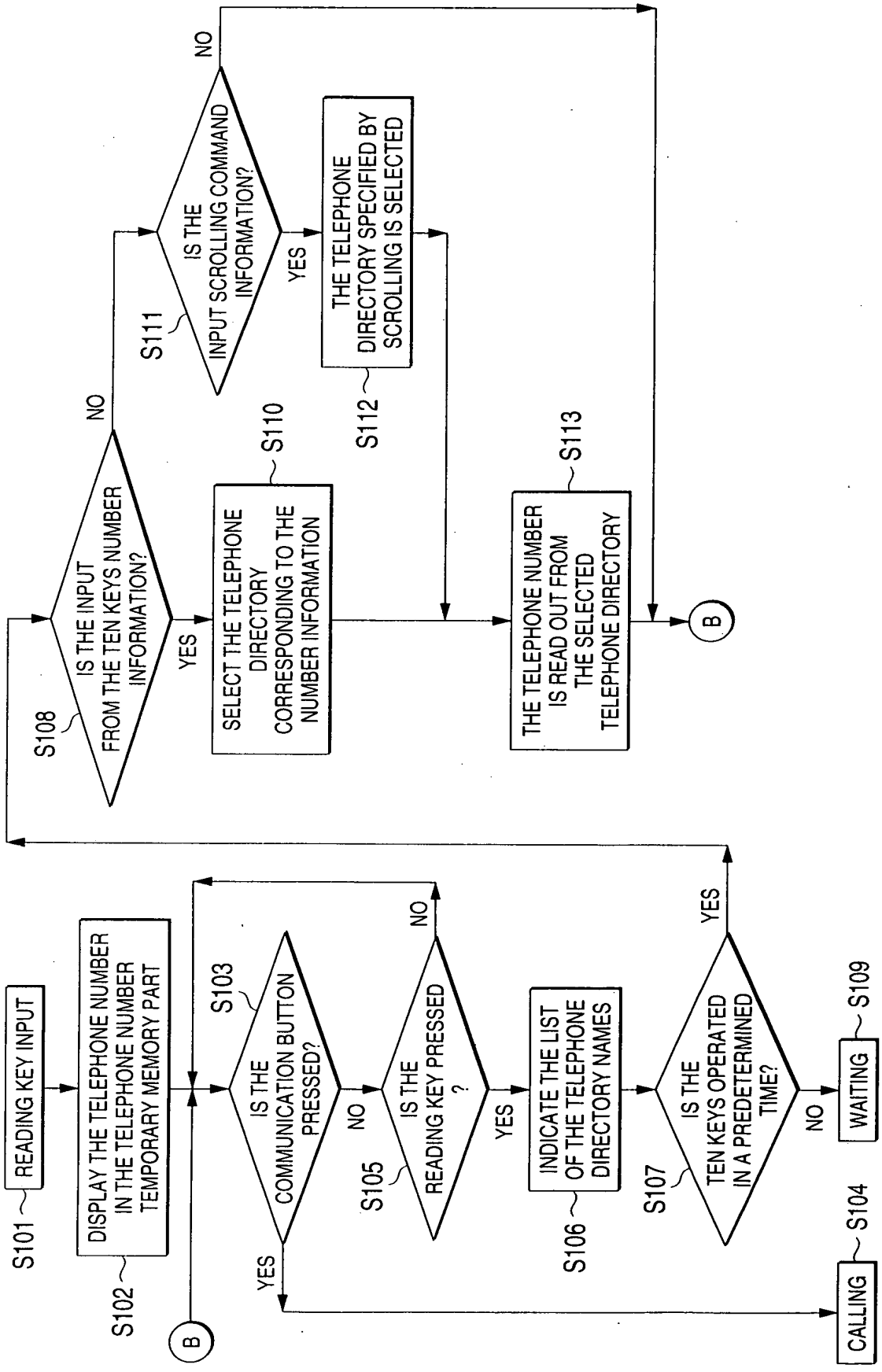
S101
READING KEY INPUT
S102
DISPLAY THE TELEPHONE NUMBER IN THE TELEPHONE NUMBER TEMPORARY MEMORY PART
S103
IS THE COMMUNICATION BUTTON PRESSED?
YES
CALLING
S104
NO
S105
IS THE READING KEY PRESSED ?
NO
YES
S106
INDICATE THE LIST OF THE TELEPHONE DIRECTORY NAMES
S107
IS THE TEN KEYS OPERATED IN A PREDETERMINED TIME?
YES
NO
S109
WAITING
B
S108
IS THE INPUT FROM THE TEN KEYS NUMBER INFORMATION?
YES
S110
SELECT THE TELEPHONE DIRECTORY CORRESPONDING TO THE NUMBER INFORMATION
NO
S111
IS THE INPUT SCROLLING COMMAND INFORMATION?
YES
S112
THE TELEPHONE DIRECTORY SPECIFIED BY SCROLLING IS SELECTED
NO
S113
THE TELEPHONE NUMBER IS READ OUT FROM THE SELECTED TELEPHONE DIRECTORY
B

FIG. 9

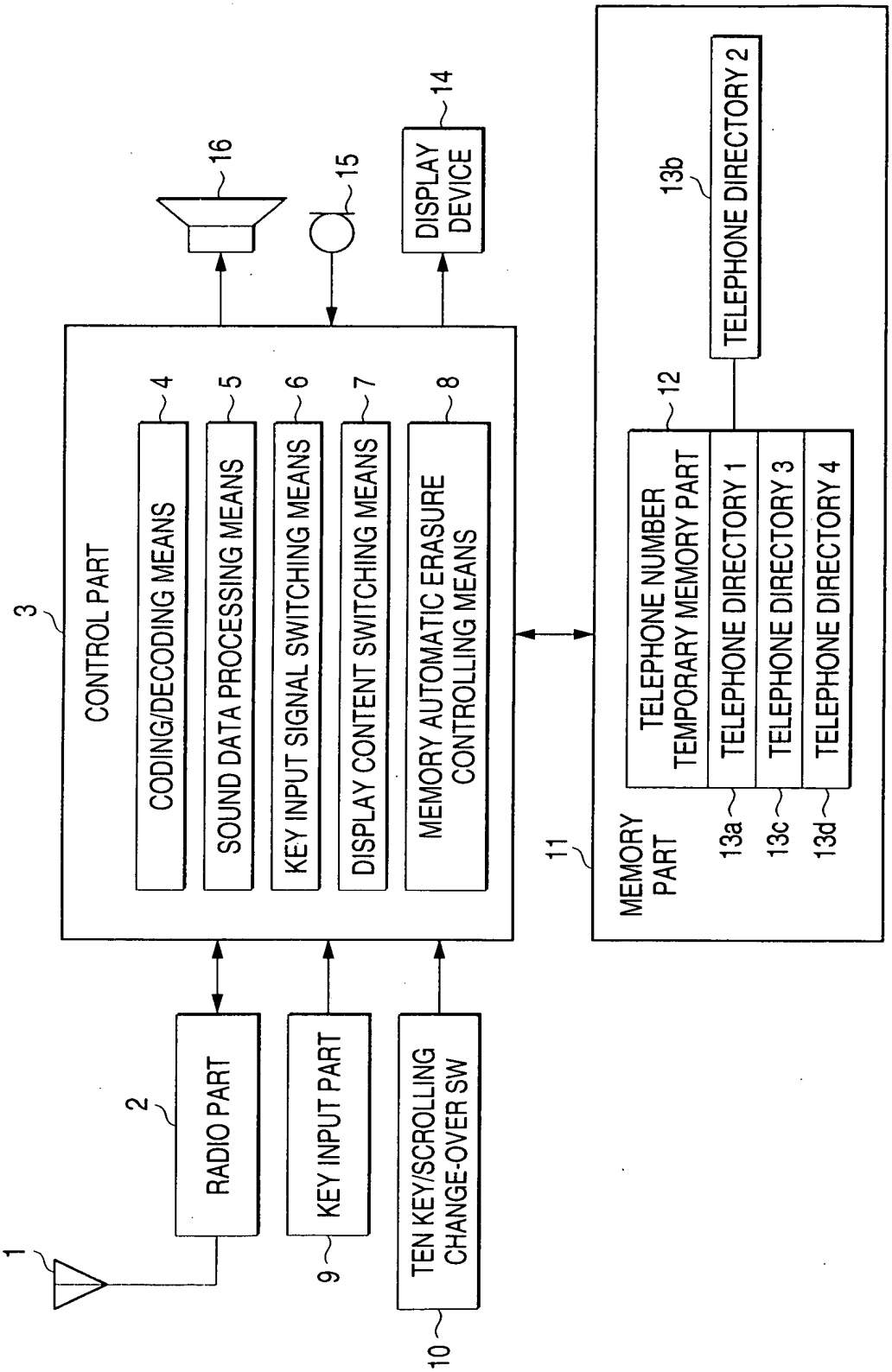
1
2
RADIO PART
9
KEY INPUT PART
10
TEN KEY/SCROLLING CHANGE-OVER SW
3
CONTROL PART
4
CODING/DECODING MEANS
5
SOUND DATA PROCESSING MEANS
6
KEY INPUT SIGNAL SWITCHING MEANS
7
DISPLAY CONTENT SWITCHING MEANS
8
MEMORY AUTOMATIC ERASURE CONTROLLING MEANS
16
15
14
DISPLAY DEVICE
11
MEMORY PART
12
TELEPHONE NUMBER TEMPORARY MEMORY PART
13a
TELEPHONE DIRECTORY 1
13c
TELEPHONE DIRECTORY 3
13d
TELEPHONE DIRECTORY 4
13b
TELEPHONE DIRECTORY 2

FIG. 10A

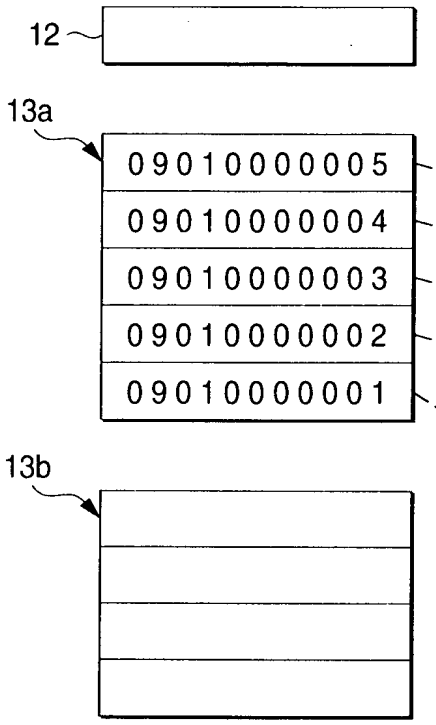

FIG. 10B

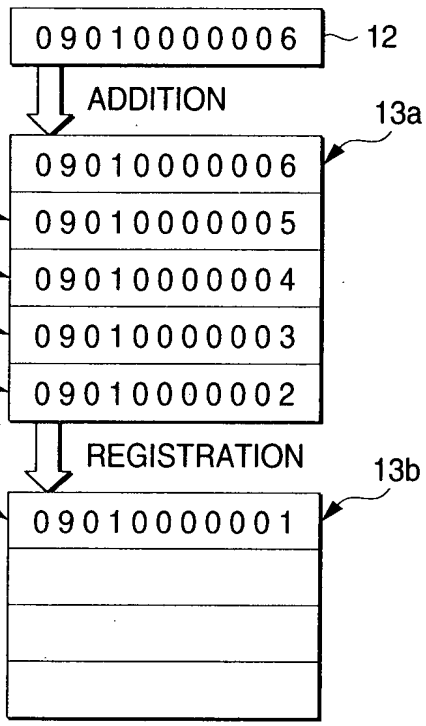

FIG. 11

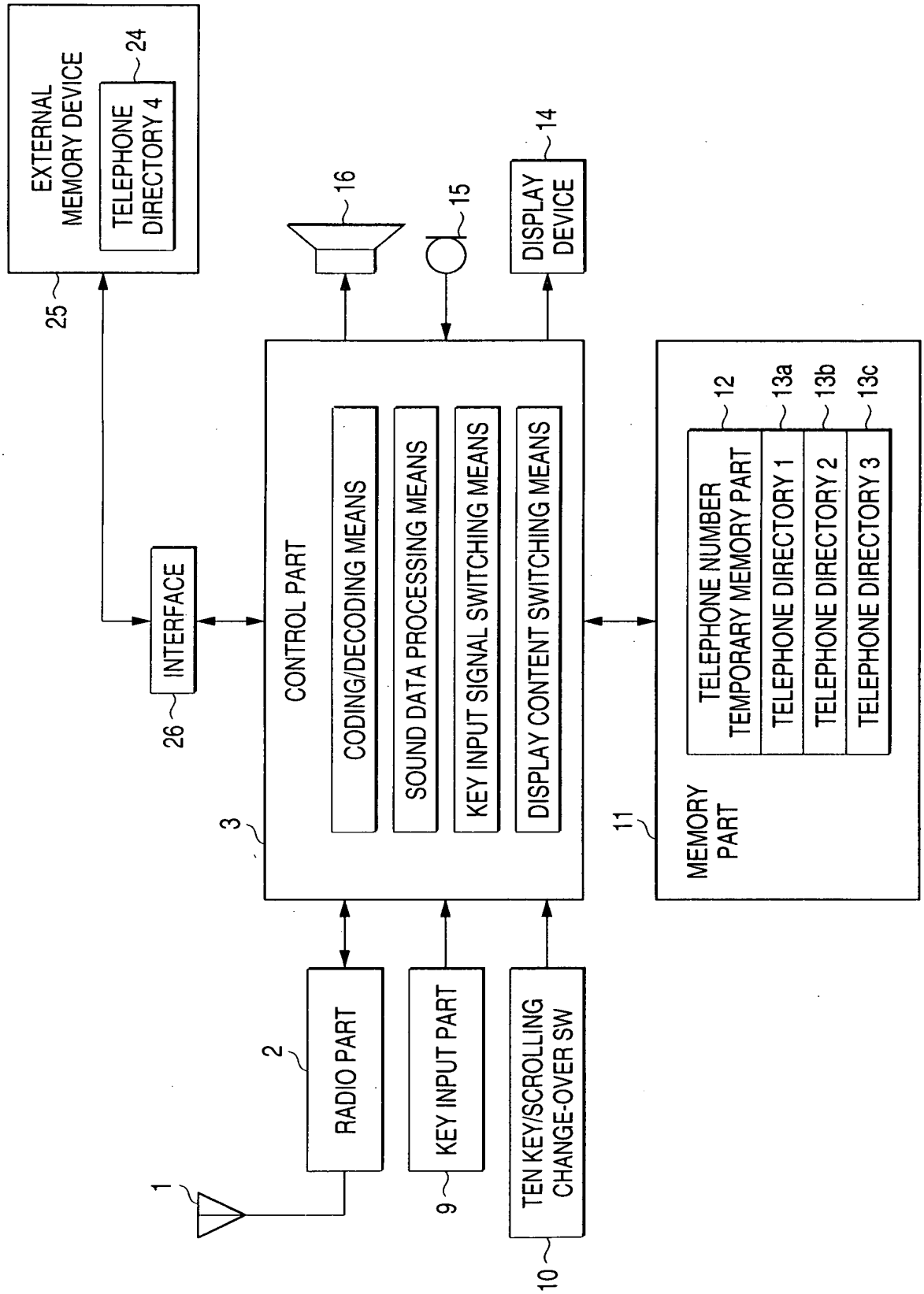
EXTERNAL MEMORY DEVICE
TELEPHONE DIRECTORY 4
24
25
INTERFACE
26
CONTROL PART
3
CODING/DECODING MEANS
SOUND DATA PROCESSING MEANS
KEY INPUT SIGNAL SWITCHING MEANS
DISPLAY CONTENT SWITCHING MEANS
16
15
DISPLAY DEVICE
14
MEMORY PART
11
TELEPHONE NUMBER TEMPORARY MEMORY PART
12
TELEPHONE DIRECTORY 1
13a
TELEPHONE DIRECTORY 2
13b
TELEPHONE DIRECTORY 3
13c
RADIO PART
2
KEY INPUT PART
9
TEN KEY/SCROLLING CHANGE-OVER SW
10
1

FIG. 12

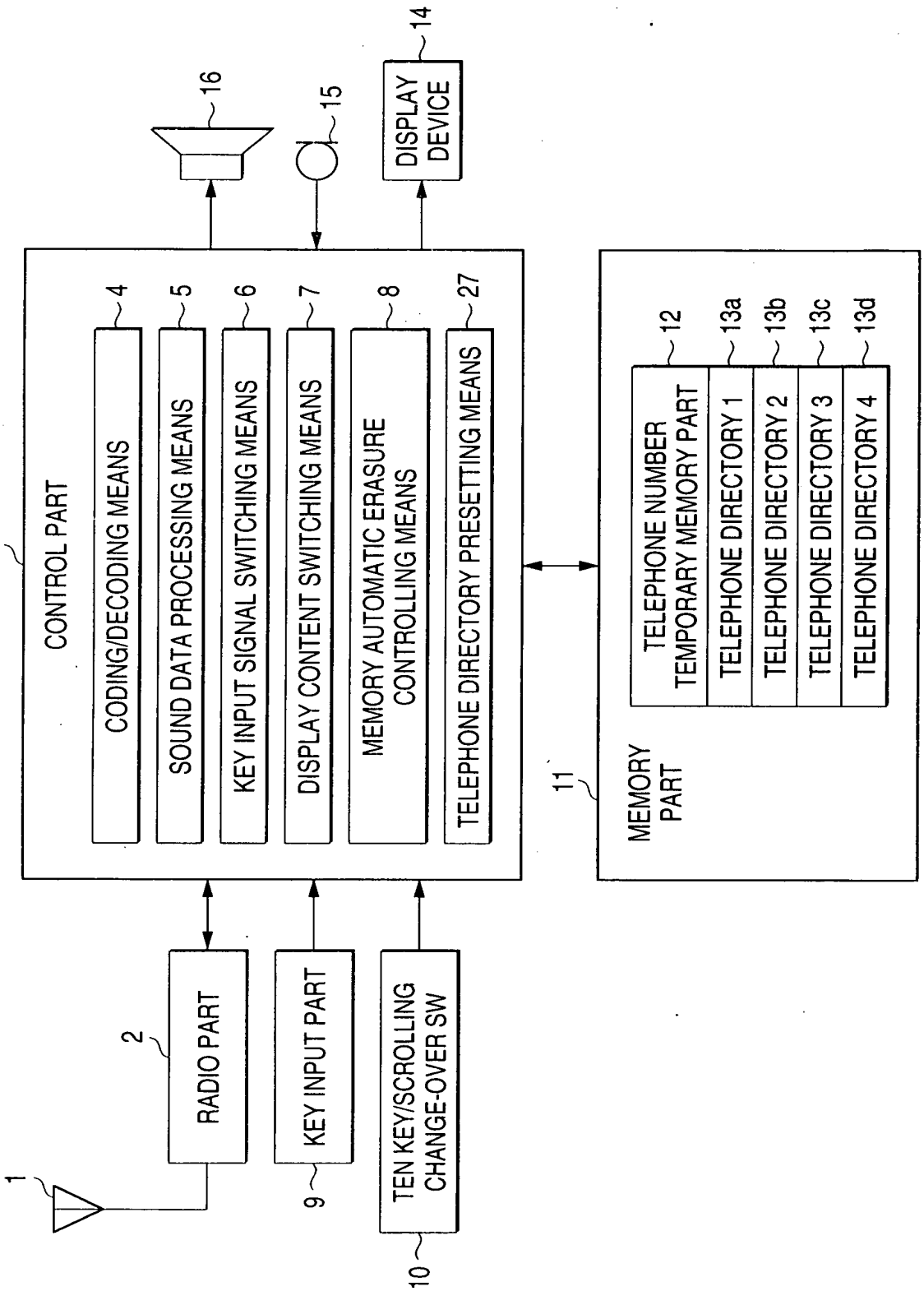
1
2
RADIO PART
9
KEY INPUT PART
10
TEN KEY/SCROLLING CHANGE-OVER SW
3
CONTROL PART
4
CODING/DECODING MEANS
5
SOUND DATA PROCESSING MEANS
6
KEY INPUT SIGNAL SWITCHING MEANS
7
DISPLAY CONTENT SWITCHING MEANS
8
MEMORY AUTOMATIC ERASURE CONTROLLING MEANS
27
TELEPHONE DIRECTORY PRESETTING MEANS
16
15
14
DISPLAY DEVICE
11
MEMORY PART
12
TELEPHONE NUMBER TEMPORARY MEMORY PART
13a
TELEPHONE DIRECTORY 1
13b
TELEPHONE DIRECTORY 2
13c
TELEPHONE DIRECTORY 3
13d
TELEPHONE DIRECTORY 4

FIG. 13

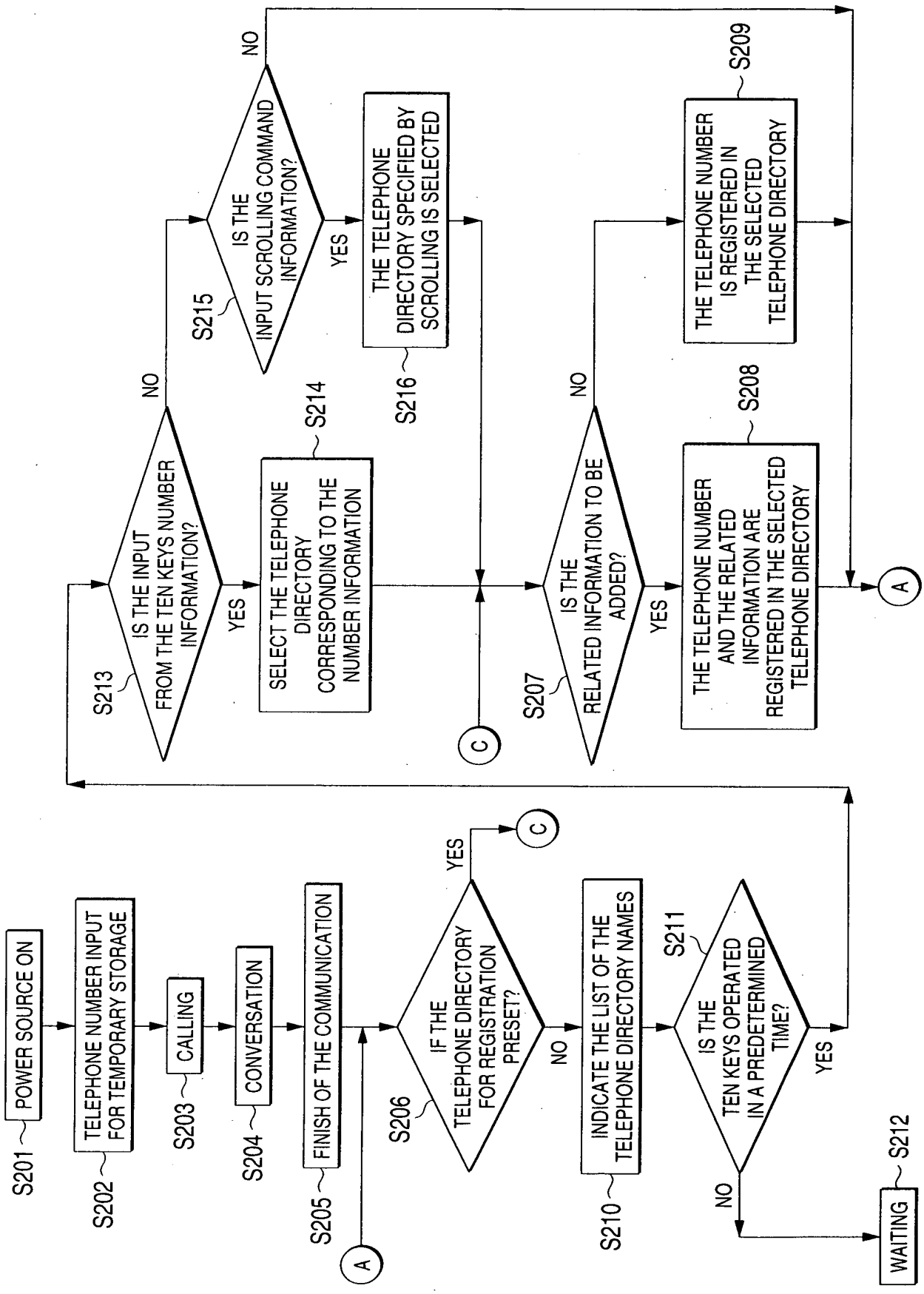
S201
POWER SOURCE ON
S202
TELEPHONE NUMBER INPUT FOR TEMPORARY STORAGE
S203
CALLING
S204
CONVERSATION
S205
FINISH OF THE COMMUNICATION
S206
IF THE TELEPHONE DIRECTORY FOR REGISTRATION PRESET?
YES
NO
S210
INDICATE THE LIST OF THE TELEPHONE DIRECTORY NAMES
S211
IS THE TEN KEYS OPERATED IN A PREDETERMINED TIME?
YES
NO
S212
WAITING
S213
IS THE INPUT FROM THE TEN KEYS NUMBER INFORMATION?
YES
NO
S214
SELECT THE TELEPHONE DIRECTORY CORRESPONDING TO THE NUMBER INFORMATION
S215
IS THE INPUT SCROLLING COMMAND INFORMATION?
YES
NO
S216
THE TELEPHONE DIRECTORY SPECIFIED BY SCROLLING IS SELECTED
S207
IS THE RELATED INFORMATION TO BE ADDED?
YES
NO
S208
THE TELEPHONE NUMBER AND THE RELATED INFORMATION ARE REGISTERED IN THE SELECTED TELEPHONE DIRECTORY
S209
THE TELEPHONE NUMBER IS REGISTERED IN THE SELECTED TELEPHONE DIRECTORY
A
C

FIG. 14A
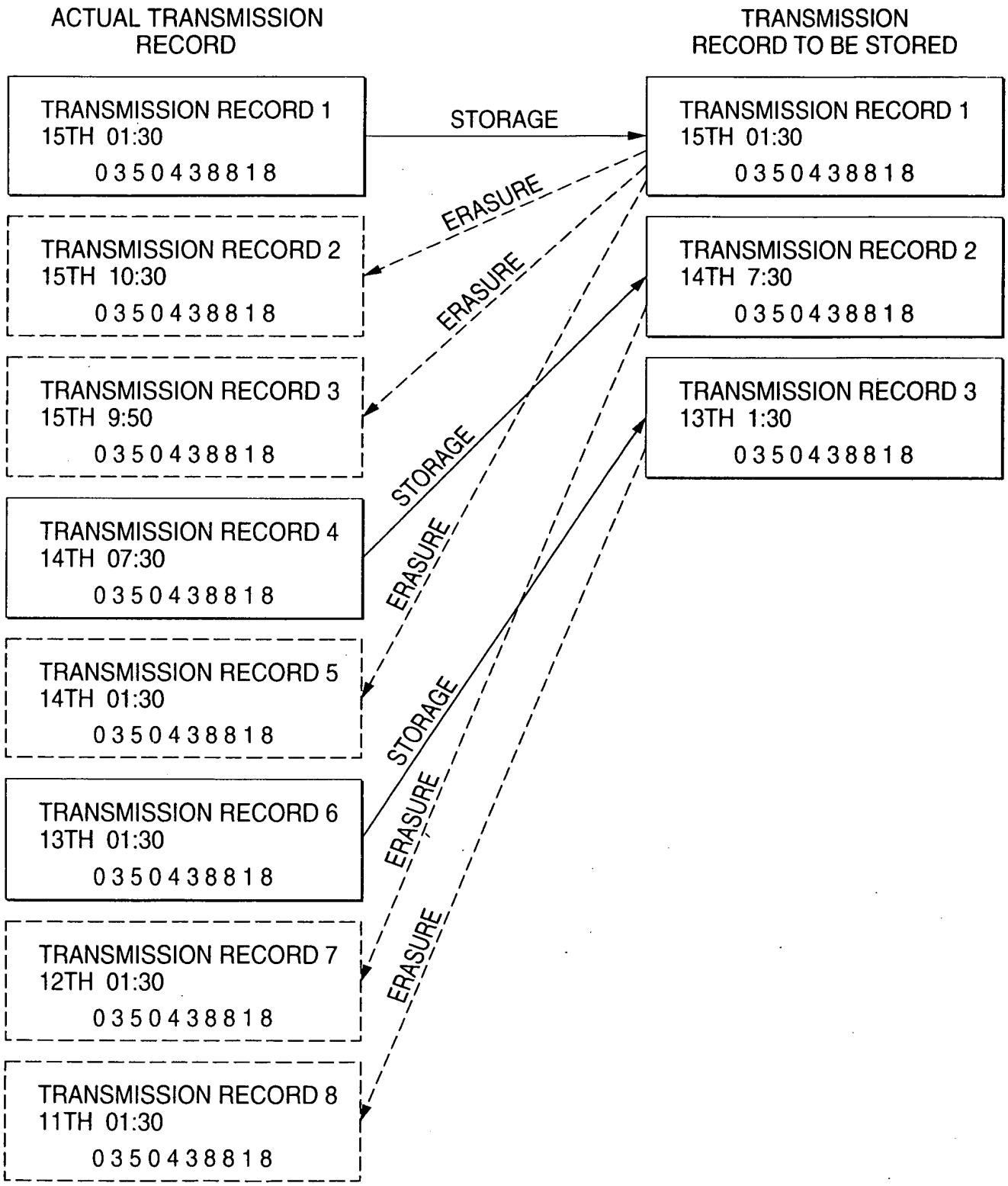
FIG. 14B